coesters cotoco

CLAIMS

What is claimed is:

1	1.	A method of operating a server machine to expand input strings of characters
2		received from client machines that include character input devices:
3		storing, in a location accessible to said server machine, one or more mappings
4		between abbreviated substrings and expanded substrings;
5		receiving, at the server machine, an unexpanded input string of characters from a
6		client machine that includes a character input device, the unexpanded input
7		string including at least one abbreviated substring, each preceded and
8		followed in the unexpanded input string by word delimiters; each abbreviated
9		substring belonging to a set of abbreviated substrings in an applicable
10		mapping of said one or more mappings; and
11		automatically finding one of the abbreviated substrings based on the preceding and
12		following word delimiters;
13		determining, based on said applicable mapping, that the abbreviated substring
14		corresponds to a particular expanded substring, and
15		producing an expanded input string that is a version of the unexpanded input string
16		with the abbreviated substring replaced by said particular expanded substring
1	2.	The method of claim 1 in which one of the abbreviated substrings begins with a
2		character and represents an expanded substring that begins with the same character
3		and in which the step of determining that the abbreviated substring corresponds to a
4		particular expanded substring comprises:
5		determining the case of the beginning character in the abbreviated substring; and
6		giving the determined case to the beginning character in the expanded substring.

1	3.	The method of claim 1 in which one of the abbreviated substrings represents
2		expanded substrings that depend on time and in which the step of determining that the
3		abbreviated substring corresponds to a particular expanded substring comprises:
4		performing a computation to obtain an expanded substring based on the current time;
5		and
6		producing the expanded input string with the abbreviated substring replaced by the
7		expanded substring based on the current time.

A server machine for expanding input strings of characters received from client		
machines that include character input devices, the server machine comprising:		
a processor; and		
connecting circuitry for connecting the processor to a user's client machine that		
includes a character input device;		
the processor operating to:		
access, in a location accessible to said server machine, one or more mappings		
between abbreviated substrings and expanded substrings;		
receive, at the server machine, an unexpanded input string of characters from a client		
machine that includes a character input device, the unexpanded input string		
including at least one abbreviated substring, each preceded and followed in		
the unexpanded input string by word delimiters; each abbreviated substring		
belonging to a set of abbreviated substrings in an applicable mapping of said		
one or more mappings; and		
automatically find one of the abbreviated substrings based on the preceding and		
following word delimiters;		
determine, based on said applicable mapping, that the abbreviated substring		

corresponds to a particular expanded substring, and

	19		produce an expanded input string that is a version of the unexpanded input string with
	20		the abbreviated substring replaced by said particular expanded substring.
		5.	A method of performing a server action that requires user input, the method
			comprising the steps of:
	21		storing, at a location accessible to a server machine, one or more mappings between
	22		abbreviated substrings and expanded substrings;
	23		receiving from a client machine an unexpanded input string that includes an
	24		abbreviated substring;
	25		determining whether said abbreviated substring is constrained to be identically
	26		produced;
M	27		if said abbreviated substring is constrained to be identically produced, then
	28		performing said server action using said abbreviated substring without
	29		expanding said abbreviated substring; and
	30		if said abbreviated substring is not constrained to be identically produced, then
	31		performing the steps of
	32		inspecting a mapping, of said one or more mappings, to determine an
	33		expanded substring that corresponds to said unexpanded substring; and
	34		performing said server action using said expanded substring.
	35		
	36	6.	The method of Claim 5 wherein:
	37		the client machine is operated by a particular user; and
	38		the method further includes the step of determining which mapping of said one or
	39		more mappings to inspect based on identity of said particular user.
	40		

45

46

47

48

49

50

51

52

55

56

57

58

59

41	7.	The method of Claim 6 wherein the step of determining which mapping to inspect
1 2		includes the steps of:
43		identifying which group of a plurality of groups includes said particular user, and
14		identifying a mapping associated with the group that includes said particular user.

- 8. The method of Claim 5 further comprising the step of determining which mapping of said one or more mappings to inspect based on which type of server action is requested by said client machine.
- 9. The method of Claim 5 wherein: the method further comprises the step of determining a current time; and determining which substring of a plurality of substrings corresponds to said unexpanded substring based on the current time.
- 10. The method of Claim 9 wherein the step of determining which substring corresponds to said unexpanded substring includes: expanding said unexpanded substring to a first expanded substring without regard to current time; and
- expanding said first expanded substring to a second expanded substring based on the current time.
 - 11. The method of Claim 5 wherein the step of performing said server action using said expanded substring is performed without sending said expanded substring to said client machine.





		12.	A computer-readable medium carrying instructions for performing a server action that
			requires user input, the instructions including instructions for performing the steps of:
	60		storing, at a location accessible to a server machine, one or more mappings between
	61		abbreviated substrings and expanded substrings;
	62		receiving from a client machine an unexpanded input string that includes an
	63		abbreviated substring;
	64		determining whether said abbreviated substring is constrained to be identically
	65		produced;
	66		if said abbreviated substring is constrained to be identically produced, then
	67		performing said server action using said abbreviated substring without
	68		expanding said abbreviated substring; and
	69		if said abbreviated substring is not constrained to be identically produced, then
	70		performing the steps of
	71		inspecting a mapping, of said one or more mappings, to determine an
	72		expanded substring that corresponds to said unexpanded substring; and
	73		performing said server action using said expanded substring.
	74		
	75	13.	The computer-readable medium of Claim 12 wherein:
	76		the client machine is operated by a particular user; and
	77		the computer-readable medium further includes the step of determining which
	78		mapping of said one or more mappings to inspect based on identity of said
	79		particular user.
	80		
	81	14.	The computer-readable medium of Claim 13 wherein the step of determining which
	82		mapping to inspect includes the steps of:
	83		identifying which group of a plurality of groups includes said particular user, and

85

86

87

88

89

90

91

92

93

94

95

96

- identifying a mapping associated with the group that includes said particular user.
 - 15. The computer-readable medium of Claim 12 further comprising the step of determining which mapping of said one or more mappings to inspect based on which type of server action is requested by said client machine.
 - 16. The computer-readable medium of Claim 12 wherein:
 the computer-readable medium further comprises the step of determining a current time; and
 - determining which substring of a plurality of substrings corresponds to said unexpanded substring based on the current time.
 - 17. The computer-readable medium of Claim 16 wherein the step of determining which substring corresponds to said unexpanded substring includes:
 - expanding said unexpanded substring to a first expanded substring without regard to current time; and
 - expanding said first expanded substring to a second expanded substring based on the current time.
 - 18. The computer-readable medium of Claim 12 wherein the step of performing said server action using said expanded substring is performed without sending said expanded substring to said client machine.